

APAC-KS, Inc.

**Construction & Demolition Landfill and
Source Separated Organic Waste Composting Facility**

PERMIT NO. 0487

SPECIAL CONDITIONS

- 1) **Closure Deadline:** The permittee is hereby authorized to take construction and demolition waste for on-site disposal until **December 31, 2010**. The maximum finished height of the landfill shall not exceed 1010-feet above mean sea level. Final cover construction shall be finished no later than **June 30, 2011**.
- 2) **Revised Final Cover Design:** The permittee shall submit to the Bureau of Waste Management a revised final cover design detail for review by **December 31, 2008** unless an alternate date has been reviewed and approved by the Bureau of Waste Management. The final cover design shall be a composite liner that is the standard for a Subtitle-D constructed municipal solid waste landfill—or an equivalent approved by the bureau. The final cover shall have finished height of the landfill shall not exceed 1010-feet above mean sea level with a minimum slope of 2% on the cap. Post-closure use shall be specified and taken into consideration when designing final cover for the site.
- 3) **Facility Operations Plan:** The permittee shall resubmit their Facility Operations Plan with a revised fill sequence, or phasing plan, whereby the eastside lower pond area is to be filled prior to moving to other locations within the disposal area. The revised plan shall be submitted by **April 30, 2008** unless an alternate date has been reviewed and approved by the Bureau of Waste Management. All facility operations shall be in compliance with the approved Facility Operations Plan.
- 4) **Design Drawings:** The design drawings are to be updated to include a legal description of the permitted facility, proof of ownership and all easements and liens of record. Record survey plat information for the entire landfill facility. The survey plat must be in conformance with “Kansas Minimum Standards For Boundary Surveys,” adopted by the Kansas Society of Land Surveyors. All survey markers must be identified as found and/or set, clearly marked and maintained in the field, and shown and labeled on the map. Tie-in all survey baseline information to Public Lands Survey Corners, and show these ties clearly with measurements and bearings on the map. Delineate and label all public rights of way, buffers, and easements (include the type, see K.A.R. 28-29-23(d)). Provide the engineering and surveying information necessary to establish the base and proposed final elevations for all of the waste disposal cells. Provide a table of permanent benchmarks that indicates their location and elevation, and delineate them on the map. In addition, the permittee shall install and maintain boundary markers in each Phase of the landfill in order to delineate the lateral and vertical extent of waste disposal. The drawings shall be submitted for review by **April 30, 2008** unless an alternate date has been reviewed and approved by the Bureau of Waste Management.
- 5) **Construction:** Construction of all phases of the landfill shall be subject to a site-specific Construction Quality Assurance (CQA) Plan prepared by a professional engineer, licensed in

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Kansas, and approved by the Bureau of Waste Management. The CQA engineer shall certify the construction and submit a report to the Bureau of Waste Management for review and approval prior to disposal of waste in the certified phase.

- 6) **Access Control**: The permittee shall submit plans for the installation of permanent perimeter fencing around the site in order to prohibit unauthorized access of persons on foot, or by vehicle, into the facility. The plans shall be submitted to the Bureau of Waste Management by **April 30, 2008** unless an alternate date has been reviewed and approved by the Bureau of Waste Management.
- 7) **Contact Water Dewatering Plan**: The permittee shall submit to the Bureau of Waste Management a disposal-area dewatering plan. The plan shall include information concerning the system's design and construction as well as for system maintenance and monitoring. The contact water within all areas of the fill shall be reduced to less than 12-inches above base grades by **December 31, 2008** or unless an alternate date has been reviewed and approved by the Bureau of Waste Management.
 - a) The design shall investigate, minimize and address the infiltration of surface water and precipitation from all sources into the disposal area of the landfill, including off-site recharge areas and site areas where aggregate stockpiles are placed and the asphalt plant is located. The contact water monitoring wells shall be designed to fully penetrate to the lowest base elevations and be spaced to ensure effective monitoring of contact water depths at the base of all disposal areas of the landfill.
 - b) Construction of the monitoring wells, contact water extraction wells, and any other contact water extraction structures shall be in accordance with the approved design and in accordance with an approved Construction Quality Assurance Plan.
 - c) The plan shall include detailed information on all disposal options for the extracted contact water.
 - d) The monitoring and reporting requirements, information to be collected, and the frequency of information collection, shall document the efficiency and progress of the system in dewatering the site.
 - e) The permittee shall include in the plan design details for converting the east-side lower pond into a permanent contact water removal sump.
 - f) The permittee shall submit the plan to the Bureau of Waste Management by **April 30, 2008** unless an alternate date has been reviewed and approved by the Bureau of Waste Management.
- 8) **Contact Water Extraction System Operations**: The permittee shall continuously extract contact water from the disposal area until elevations within each phase are less than or equal to 12-inches above base-elevations of the landfill. In addition, the permittee shall ensure that levels are maintained at or below 12-inches during active operations, closure and post-closure of the facility. The contact water that is removed shall be handled and disposed of as appropriate. This

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activity shall continue until the permittee requests and receives approval for change by the Bureau of Waste Management.

- 9) **Ground Water Monitoring in accordance with Sampling and Analysis Plan:** The permittee shall maintain a groundwater monitoring system and sample groundwater in accordance with a Sampling and Analysis Plan that has been approved by the Bureau of Waste Management. This monitoring activity shall continue until the permittee requests and receives approval for change by the Bureau of Waste Management.
- 10) **Landfill Gas Collection System Operation and Monitoring:** The permittee shall maintain a landfill gas collection, treatment, monitoring and notification system. The system shall provide for emergency power backup. The permittee shall monitor the facility monthly on a 200-foot grid pattern and at every on-site structure in order to determine if additional landfill gas extraction measures are needed to control emissions. Methane shall be controlled below 5% at the boundaries of the site and below 1.25% within any onsite structures. The landfill gas emissions shall be controlled below 0.010-ppm hydrogen sulfide at the boundaries. The system shall include a Community Communications Plan that will provide for notification to the neighboring community and local medical/emergency response personnel that hydrogen sulfide levels may create an odor nuisance condition and other pertinent information as necessary. The landfill gas collection, treatment and monitoring system shall be designed and design plans submitted to the Bureau of Waste Management by **April 30, 2008** unless an alternate date has been reviewed and approved by the Bureau of Waste Management. These systems shall remain in place and operating at all times in accordance with the approved facility Operations Plan until the permittee requests and receives authorization for change from the Bureau of Waste Management.
- 11) **East-side Highwall Seal:** The permittee shall submit design plans to the Bureau of Waste Management by **April 30, 2008**, unless an alternate date has been reviewed and approved by the Bureau, which provides for the installation of a landfill gas barrier on exposed areas of the east-side highwall in order to inhibit the migration of landfill gas off-site towards residential and business areas.
- 12) **Quarterly Reports Summarizing Progress toward Corrective Action Milestones:** The permittee shall submit a quarterly report within 45 days of the end of each quarter—the first being due May 15, 2008—summarizing progress toward corrective actions goals established by the Bureau of Waste Management. The report should include information of import pertaining to contact water levels within the fill, contact water removal and treatment, groundwater monitoring, landfill gas monitoring (at perimeter and within facility boundary), landfill gas collection and treatment, and regulatory inspection reports. Copies of the reports shall be made available to the public through regulatory agency and APAC-KS web sites within 15 days of the report being submitted. This activity shall continue until the permittee requests and receives approval for change from the Bureau of Waste Management.

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- 13) **Mud control**: The permittee shall submit detailed design and operation plans to prevent the tracking of mud and debris from the facility and onto public roadways. Mud control measures may include, but are not limited to, a vehicle tire cleaning facility on the landfill property, improved road surfaces, or other appropriate measures. The mud control plan is due by **April 30, 2008** unless an alternate date has been reviewed and approved by the bureau.
- 14) **Incorporation into Permit**: All final designs, plans, reports and other documentation required by these Special Conditions to be submitted to the Bureau of Waste Management, shall be incorporated into Permit #0487 and made a part thereof.
- 15) **Plan Revisions**: Any plans, design, reports, or other documentation required to be submitted to the Bureau of Waste Management, shall be revised according to the bureau's directives and resubmitted no later than sixty (60) days following the date on which the bureau submits a notification to permittee that its documentation was not approved, in part or in full.
- 16) **Scheduling**: Implementation of all approved operations and construction shall be in accordance with schedules noted in the documents approved by the Bureau of Waste Management.